

REMARKS

This amendment is being submitted in response to the Examiner's request for replacement copies of the Substitute Sequence Listing in paper and CRF formats, and the amendment first submitted January 10, 2003. Accordingly, this amendment is accompanied by a copy of the floppy disk containing SEQ ID NOS: 1-104, in computer readable form, and a paper copy of the sequence information which has been printed from the floppy disk originally submitted January 10, 2003. The information contained in the computer readable disk of was prepared through the use of the software program "FastSEQ for Windows Version 4.0" and was identical to that of the paper copy. This amendment contains no new matter. This amendment differs from the amendment submitted January 10, 2003 in that it includes the amendments to the specification and only those claims within the elected restriction groups (I-III).

The corrections and additions to the specification requested herein are corrections needed to conform the specification to the Sequence Listing, as explained below.

The specification has been amended to add sequence identifiers to sequences in the specification as filed in compliance with 37 C.F.R. §1.821-1.825.

In the "BRIEF DESCRIPTION OF THE DRAWINGS" new sequence identifiers were added to properly identify all sequences in the specification as filed. Paragraphs for each of the descriptors of SEQ ID NOS:98-102 were added immediately prior to the paragraph heading ":Detailed Description of the Invention", on page 12, line 28 of the specification.

In the paragraph beginning on page 8, line 14, the sequences referenced by SEQ ID NOS:46 and 47 were amended to comply with the sequences as depicted on Figure 5 originally filed with the application. The paragraph beginning at page 31, line 8, (Table 3) was amended by a replacement paragraph which also adds sequence identifiers SEQ ID NOS:98-102 in order to further describe these sequences in the Sequence Listing.

The paragraph beginning at page 68, line 20 was amended by a replacement paragraph to insert sequence identifiers SEQ ID NO: 54 and SEQ ID NO: 51 to comply with the requirements 37 C.F.R. §1.821.

The specification has been amended to correct the fact that sequence identifier SEQ ID NO:78 was originally used to identify two different sequences. The second of these sequences, oligonucleotide CCCGAAGAGCCCGGCCGGAGGGGCAGCTTTGTCGA, has been reidentified as SEQ ID NO:98, in the paragraph beginning on page 8, line 31, of the specification.

The paragraphs containing descriptors for SEQ ID NOS: 51 and 54, on lines 4 and 8 respectively of page 11, have been amended to more clearly describe the nature of the sequences. Support for this amendment can be found in the paragraph beginning on page 68, line 20 of the specification.

The paragraph beginning on page 11, line 29 has been amended to remove the recited sequence, which correctly describes SEQ ID NO: 72 (obvious from the length of the sequence), but which is superfluous in view of the Sequence Listing.

The paragraph beginning on page 30, line 5, containing the descriptor of SEQ ID NO: 56 was amended by a replacement paragraph to correct an obvious error. The internal peptide is correctly shown in FIG. 5 (block described as "internal peptide sequence") with a "G" (glycine) in position 2 thereof. The transcription error was inadvertent and without deceptive intent.

Claims 47, 77, 85, and 106 have been amended to insert sequence identifiers in the place of the recited peptide fragment sequences.

Applicants submit that no new matter is added by the foregoing amendments to the specification. Accordingly, entry of this amendment is respectfully requested.

If the Examiner believes a telephone conference would expedite prosecution of this application, please telephone the undersigned at 650-326-2400.

Respectfully submitted,



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